Product name:
PU Akcelerator

Anton Vorek s.r.o.
grouting packers, equipment, products & materials

1 SECTION 1 Identification of the substance / mixture and the company / undertaking:

1.1 Product identifier

PU Accelerator
UFI: NV00-V0EC-A00T-E5N1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Accelerator of solidification. Construction chemistry.

1.3 Details of the supplier of the safety data sheet

Anton Vorek s.r.o.
Malá Strana 234
742 71 Suchdol nad Odrou
+420 556 720 390
info@vorek.cz

1.4 Emergency telephone number:

Phone: +49 180 2273-112

2 SECTION 2 Hazards identification

2.1 Classification of the substance or mixture

Classification of the substance or mixture in accordance with Regulation (EU) 1272/2008:

H319 Eye Irrit. 2

2.2 Label elements:

Pictograms

Signal word:

Warning

Hazard statements:

H319 Eye Irrit. 2	Causes serious eye irritation.

Precautionary statements:

P264	Wash thoroughly after handling
P280	Wear protective gloves/protective clothing/safety glasses/face shield.

Product name:
PU Akcelerator

Anton Vorek s.r.o.
grouting packers, equipment, products & materials

P305+P351+P338	IN EYE CONTACT: Rinse carefully with water for several minutes. Remove contact lenses, if worn and if they can be removed easily. Continue rinsing
P337 + P313	If eye irritation persists: Get medical attention/treatment.

2.3 Other hazards

The product does not contain PBT/vPvB substances in an amount of 0.1% or higher. The product does not contain endocrine disruptors in amounts of 0.1% or higher.

3 SECTION 3 Composition / information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

In accordance with Regulation (ES) No. 1272/2008

2,2'-dimorfolinyldiethyl-ether

CAS Number: 6425-39-4
EINECS: 229-194-7
REACH reg. Nr: 01- 2119969278-20

≤ 70 %

CLP Classification:
H319 Eye Irrit. 2

The classification is not given in full in this section, including the hazard class and hazard statements, you can find the full text in section 16.

4 SECTION 4 First aid measures

4.1 Description of first aid measures

For severe or persistent symptoms, always seek medical attention as soon as possible.

Skin contact: remove contaminated clothing, rinse skin with plenty of water and, if necessary, seek medical attention.
Eye contact: first rinse repeatedly with water (remove contact lenses, if worn and if they can be easily removed), then transfer to a doctor.
Ingestion: rinse mouth, do not induce vomiting, take to hospital immediately.
Inhalation: sit upright, fresh air, rest, transfer to hospital.

4.2 Most important symptoms and effects, both acute and delayed

Skin contact: redness, pain
Eye contact: redness, bad looking, pain
Ingestion: abdominal cramps, diarrhea, dizziness, headache, fatigue
Inhalation: none

4.3 Indication of any immediate medical attention and special treatment needed

none

5 SECTION 5 Fire-fighting measures

5.1 Extinguishing media

CO2, foam, powder, sprayed water

5.2 Special hazards arising from the substance or mixture

None

5.3 Advice for firefighters

None

6 SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not enter or touch the spilled substance. Avoid inhalation of fumes, smoke, dust and vapours, keep calm. Remove all contaminated clothing and used contaminated protective equipment and dispose of them safely.

6.2 Environmental precautions

Avoid entry into drains or open water.

6.3 Method and material for containment and cleaning up

Collect loose substances, store in suitable containers. If possible, use absorbent material for removal.

6.4 Reference to other sections

For further information, check section 8 and 13.

7 SECTION 7 Handling and storage

7.1 Precautions for safety handling

Handle the substance carefully to avoid spillage.

7.2 Condition for safety storage, including any incompatibilities

Keep in a closed container in a closed and frost-resistant and ventilated room.

7.3 Specific end use(s):

See section 1.2.

8 SECTION 8 Exposure control / personal protection

8.1 Control parameters

Government Regulation No. 361/2007 Coll. as amended: limits not set***.***

8.2 Exposure control

Inhalation protection	Respiratory protection is not required. In case of irritation, use gas masks type ABEK. If necessary, use adequate suction.	

Skin protection	Use nitrile gloves (EN 374) when handling. Penetration time: > 480' Material thickness: 0.35 mm. Inspect gloves thoroughly before use. Remove gloves carefully, avoid touching the outside of the gloves with your bare hands. The suitability of the use of the given protective gloves for a specific workstation must be consulted with the manufacturer. Always wash and dry your hands after handling.	
Eye and face protection	Have an eyewash bottle within reach. Use safety glasses. Wear a face shield and protective clothing in case of any extraordinary processing problems.	
Other protection	Impermeable clothing. The type of protective equipment depends on the concentration and amount of hazardous substances at the workstation.	

9 SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Melting point/melting range:	- 20°C
Boiling point/Boiling range:	394°C – 394°C
pH:	10.3
Vapour pressure / 20 ° C:	/
Vapour density:	not applicable
Relative density, 20 ° C:	1.0600 kg/l
Appearance:	liquid
Colour:	undetermined
Flash point:	156°C
Flammability (solid, gas):	not applicable
Auto ignition temperature:	330 °C
Upper flammability or explosive limit (Vol%):	/
Lower flammability or explosive limit (Vol%):	/
Explosive properties:	not applicable
Oxidising properties:	not applicable
Decomposition temperature:	/
Solubility in water:	not soluble
Partition coefficient: n-octanol /water:	not applicable
Odour:	characteristic
Odour treshold:	not applicable
Dynamic viscosity, 20 °C:	1 mPa.s
Kinematic viscosity, 40 °C:	1 mm² /s
Evaporation in rate (n-BuAc = 1):	/

9.2 Other information

Volatile organic component (VOC):	/
Volatile organic component (VOC):	0.000 g/l
Continuous combustion test:	/

10 SECTION 10 Stability and reactivity

10.1 Reactivity

stable under normal conditions

10.2 Chemical stability

Protect from extremely high or low temperatures

10.3 Possibility of hazardous reactions

None

10.4 Conditions to avoid

Protect from sunlight and do not expose to temperatures above + 50 °C

10.5 Incompatible materials

acids

10.6 Hazardous decomposition products

does not break down under normal use

11 SECTION 11 Toxicologic information

11.1 Information on the hazard classes defined in Regulation (EC) No. 1272/2008

Acute toxicity: It does not meet the criteria for classification.
Calculated acute toxicity, ATE oral: /
Calculated acute toxicity, ATE dermal: /

2,2'-dimorfolinyldiethyl-ether	LD50 oral, rat: ≥ 5,000 mg/kg LD50 dermal, rabbit: ≥ 5,000 mg/kg LC50, Inhalation, rat, 4h: ≥ 50 mg/l

Skin corrosion/irritation: Does not meet the criteria for classification.
Serious eye damage/irritation: Causes serious eye irritation.
Respiratory/skin sensitization: Does not meet the criteria for classification.
Carcinogenicity: Does not meet the criteria for classification.
Germ cell mutagenicity: Does not meet the criteria for classification.
Reproductive toxicity: Does not meet the criteria for classification.
Specific target organ toxicity - single exposure: Does not meet the criteria for classification.
Specific target organ toxicity - repeated exposure: Does not meet the criteria for classification.
Aspiration hazard: Does not meet the criteria for classification.

11.2 Further hazard information

The product does not contain endocrine disruptors in amounts of 0.1% or higher.

12 SECTION 12 Ecological information

12.1 Toxicity

2,2'-dimorfolinyldiethyl-ether	LC50 (Fish): > 2150 mg/L (96h) NOEC (Fish): 215 mg/L (96h) EC50 (invertebrates, Daphnia): > 100 mg/L (24h) NOEC (invertebrates, Daphnia): 100 mg/L (48h) EC50 (Algae): > 100 mg/L (72h) NOEC (Algae): 100 mg/L (72h)

12.2 Persistence and degradability

Not readily biodegradable (according to OECD criteria).

12.3 Bioacumulative potential

No additional data available

12.4 Mobility in soil

Solubility in water: not soluble

12.5 Assessment results PBT and vPvB

The product does not contain PBT/vPvB substances in an amount of 0.1% or higher.

12.6 Endocrine-disrupting properties

The product does not contain endocrine disruptors in amounts of 0.1% or higher.

12.7 Other adverse effects

No additional data available

13 SECTION 13 Disposal consideration

13.1 Waste treatment methods

Discharge into the sewer is not permitted. The liquidation should be carried out with the help of a specialized company. Local regulations must also always be observed.
According to the European Waste Catalog, waste codes are not characteristic of the product, but of its use. Waste codes should be assigned by the user, preferably after discussion with the authorities responsible for waste disposal.

14 SECTION 14 Transport information

14.1 UN Number
Not applicable

14.2 UN proper shipping name
Not applicable

14.3 Transport hazard class(es)
Not applicable

14.4 Packing group
Not applicable

14.5 Environmental hazards
Not applicable

14.6 Special precautions for user
Not applicable

14.7 Maritime bulk transport according to IMO instruments

Not applicable

15 SECTION 15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Water hazard class, WGK (AwSV): 1
Volatile organic component (VOC): /
Volatile organic component (VOC): 0,000 g/l
Composition by regulation (ES) 648/2004: none

REACH Annex XVII - Restrictions: entry 56, 74.
Regulation of the European Parliament and of the Council (EC) No. 1907/2006 (REACH),
Regulation of the European Parliament and of the Council (EC) No. 1272/2008 (CLP),
Act No. 350/2011 Coll. on chemical substances and chemical mixtures,
Act No. 258/2000 Coll. on the protection of public health as amended.

15.2 Chemical safety assessment

No additional data available

16 SECTION 16 Further information

Legend to abbreviations used in the safety data sheet

ADR The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE: Acute Toxicity Estimate
BCF: Bioconcentration factor
CAS: Chemical Abstracts Service
CLP: Classification, Labelling and Packaging of chemicals
EINECS: European Inventory of Existing commercial Chemical Substances
LC50: median Lethal Concentration for 50 % of subjects
LD50: median Lethal Dose for 50 % of subjects
Nr.: Number
PTB: Persistent, Toxic, Bioaccumulative
TLV: Threshold Limit Value
vPvB: very Persistent and very Bioaccumulative substances
WGK: Water hazard class
WGK 1: Slightly hazardous for water
WGK 2: Hazardous for water
WGK3: Extremely hazardous for water

Legend to the H Phrases used in the safety data sheet

H319 Eye Irrit. 2 Causes serious eye irritation.

CLP Calculation method: taken from supplier (calculation)
Data sources: supplier's safety data sheet, ECHA.
Workers must be instructed on handling risks and on health and environmental protection requirements.

This safety information sheet has been compiled in accordance with annex II/A of the regulation (EU) No 2015/830.
Classification has been calculated in accordance with European regulation 1272/2008 with their respective amendments. It has been compiled with the utmost care. We cannot, however, accept responsibility for damage, of any kind, that may be caused by using these data or the product concerned. To use this preparation for an experiment or a new application, the user must carry out a material suitability and safety study himself.

Revision
Issue date: 25.3.2024
Revision notes: modification of the format according to Regulation 878/2020/EU; addition of UFI.